

Title (en)

Water-soluble material, chemically amplified resist and pattern formation method using the same

Title (de)

Wasserlösliches Material, chemisch verstärkter Resist, und Bilderzeugungsverfahren unter Verwendung dieses Resists

Title (fr)

Matière soluble dans l'eau, réserve chimiquement amplifiée, et procédé de formation d'images employant cette réserve

Publication

**EP 1553453 A2 20050713 (EN)**

Application

**EP 04029999 A 20041217**

Priority

JP 2003425071 A 20031222

Abstract (en)

A water-soluble material used for forming a water-soluble film on a chemically amplified resist film includes a water-soluble polymer, an acid generator and a compound constructing an inclusion compound for incorporating the acid generator. Also, in a pattern formation method, a chemically amplified resist film is formed on a substrate, and a water-soluble film made of a water-soluble material including a water-soluble polymer, an acid generator and a compound constructing an inclusion compound for incorporating the acid generator is formed on the resist film. Thereafter, pattern exposure is carried out by selectively irradiating the resist film with exposing light through the water-soluble film, the resultant resist film is developed and the water-soluble film is removed. Thus, a resist pattern made of the resist film is formed.

IPC 1-7

**G03F 7/095**; **G03F 7/004**

IPC 8 full level

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CPC (source: EP US)

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**EP 1553453 A2 20050713**; **EP 1553453 A3 20060816**; CN 1637600 A 20050713; JP 2005181850 A 20050707; JP 4196822 B2 20081217; US 2005191576 A1 20050901; US 2007082292 A1 20070412; US 7198888 B2 20070403

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